

Applicants: Lionel Vedrine
Serial No.: 10/520,981
Filing Date: August 29, 2005
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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A device for injecting a product, particularly for medical use, which comprises:

a body housing a hollow injection needle and a container containing the injectable product; the needle is connected to the body but able to move relative to the latter between an injection position and a retracted position;

a plunger that slides in the body and is displaceable relative to the latter to perform the injection; said container is closed at one end and is connected to this plunger but is able to move relative to the latter between a position that enables the injection to be performed and a retracted position;

a piston engaged in the container and so shaped to have a blind hole located adjacent a peripheral portion, wherein, in a first configuration of the piston or relative position of this piston and of this container, it closes the container in such a way as to isolate the product from the environment outside this container and, in a second configuration of the piston or relative position of this piston and of this container, said peripheral portion of said piston is deflected into said blind hole so as to allow the product to pass between said piston and said container and out of the container without

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said piston being pierced, wherein the piston is spaced from, and not in contiguous contact with, the needle with the piston being in the second configuration or position;

a flange formed at the opposite end of the container from the closed end of this container; and

at least one tab able to move in the radial direction of the plunger between a radially inward position, in which said flange is connected to the plunger, and a radially outward position, in which said at least one tab is withdrawn radially wide of this flange, thereby releasing ~~it~~ the flange.

2. - 4. (Cancelled)

5. (Currently Amended) The injection device as claimed in claim 1, which comprises a spring ~~means~~ for moving the needle and the container to the retracted position without voluntary external action.

6. (Previously Presented) The injection device as claimed in claim 1, in which said body forms a distal end perpendicular to the axis of the needle, wherein the needle projects, in the injection position, from said distal end to a distance equal to the desired depth of insertion of this needle during the injection.

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7. (Currently Amended) The injection device as claimed in ~~6~~-claim 1, further comprising:
- a needle-supporting part comprising ~~at least one~~ a secondary flange, said needle being supported by said needle-supporting part; and
- at least one secondary tab able to engage with said secondary flange of said needle-supporting part, this at least one secondary tab being moveable radially between a normal, radially inward position, in which said at least one secondary tab engages with said secondary flange to keep said needle-supporting part in position relative to said body, and a radially outward position, in which the plunger moves said at least one secondary tab radially out to unlock ~~it~~ the secondary flange, thereby freeing said needle-supporting part from said body.
8. (Cancelled)